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(21) International Application Number: PCT/US99/24070 (22) International Filing Date: 13 October 1999 (13.10.99) (30) Priority Data: 60/104,179 13 October 1998 (13.10.98) US (71) Applicant: CLONTECH LABORATORIES, INC. [US/US]; 1020 East Meadow Circle, Palo Alto, CA 94303 (US). (72) Inventor: CHENCHIK, Alex; 670 San Antonio Road #30, Palo Alto, CA 94306 (US). (74) Agent: FIELD, Bret, E.; Bozicevic, Field & Francis LLP, Suite 200, 285 Hamilton Avenue, Palo Alto, CA 94301 (US).		(81) Designated States: AU, CA, IL, JP, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i>
(54) Title: NUCLEIC ACID ARRAYS (57) Abstract Arrays of oligonucleotide spots, as well as methods for their production and use, are provided. The subject arrays have at least one pattern of probe oligonucleotide spots stably associated with the surface of a solid support. A plurality of different target nucleic acids are represented in the pattern, where each target nucleic acid may correspond to one probe oligonucleotide spot or a plurality of different probe oligonucleotide spots. In one type of preferred embodiment, all of the oligonucleotide spots correspond to the same type of target nucleic acid, i.e. all of the corresponding target nucleic acids are the same type of gene. Each probe oligonucleotide spot is made up of a plurality of unique oligonucleotides that are capable of hybridizing to different regions of the corresponding target nucleic acid. The subject arrays find use in hybridization assays, particularly in assays for the identification of differential gene expression patterns among cells.		